


Bisulfite sequencing and TAB sequencing

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 An abbreviated version of this protocol was published in Science Advances in Jan 2021

The chromosomal protein SMCHD1 regulates DNA methylation and the 2c-like state of embryonic stem cells by antagonizing TET proteins

DOI: 10.1126/sciadv.abb9149

Detailed protocol

Hi Judit Balog,

Thanks for asking. For the bisulfite sequencing primer for mouse *H19* region, we used two sets of primers. Please see below,

The first set : mH19_BSset1F: GAG TAT TTA GGA GGT ATA AGA ATT mH19_BSset1R: ATC AAA AAC TAA CAT AAA CCC CT

The second set: mH19_BSset2F: GTA AGG AGA TTA TGT TTT ATT TTT GG mH19_BSset2R: CCT CAT AAA ACC CAT AAC TAT

For more detail of the Tab-sequencing protocol, please see our paper: High-Resolution Analysis of 5-Hydroxymethylcytosine

by TET-Assisted Bisulfite Sequencing, which was published by our group in 2020. You would find the paper by this link, https://doi.org/10.1007/978-1-0716-0876-0_25.

Thanks

How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Pfeifer, G. and Huang, Z. (2021). Bisulfite sequencing and TAB sequencing. Bio-protocol Preprint. bio-protocol.org/prep864.
2. Huang, Z., Yu, J., Cui, W., Johnson, B. K., Kim, K. and Pfeifer, G. P. (2021). The chromosomal protein SMCHD1 regulates DNA methylation and the 2c-like state of embryonic stem cells by antagonizing TET proteins. Science Advances 7(4). DOI: [10.1126/sciadv.abb9149](https://doi.org/10.1126/sciadv.abb9149)

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